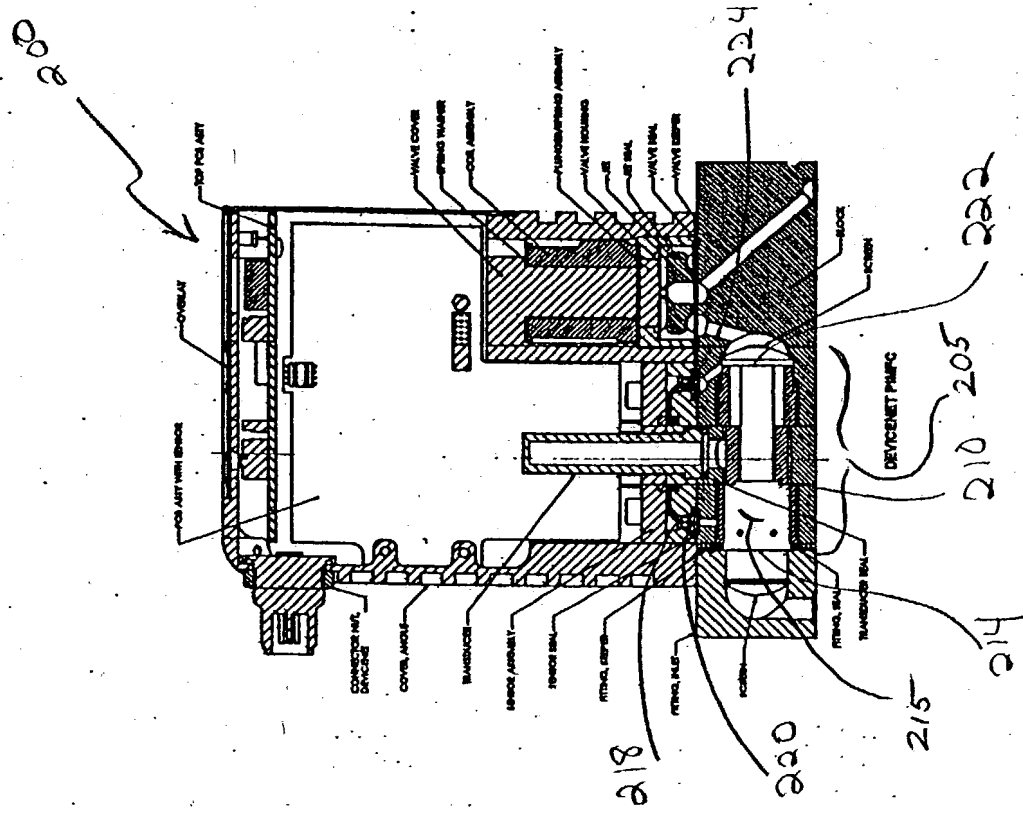
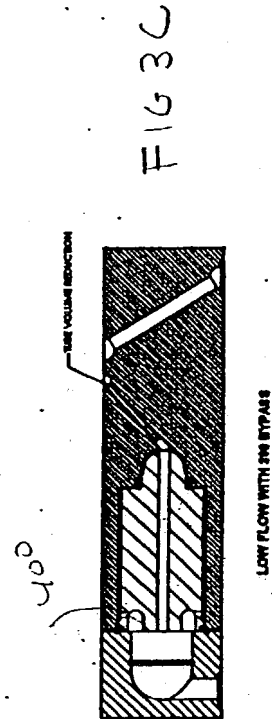
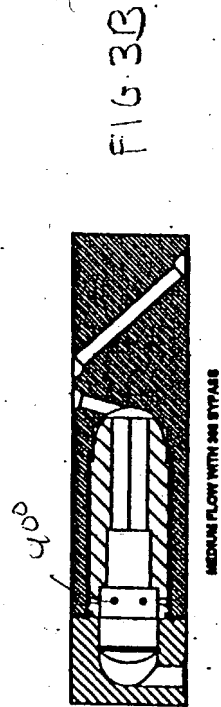
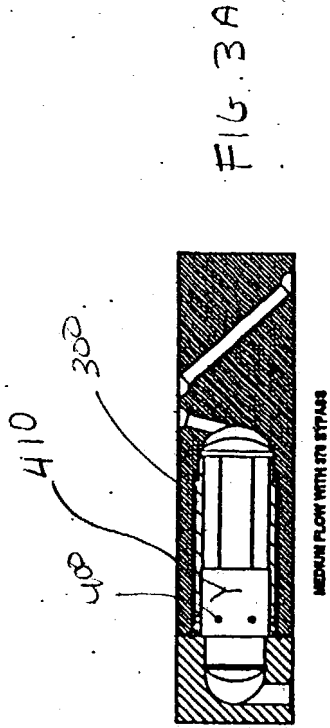
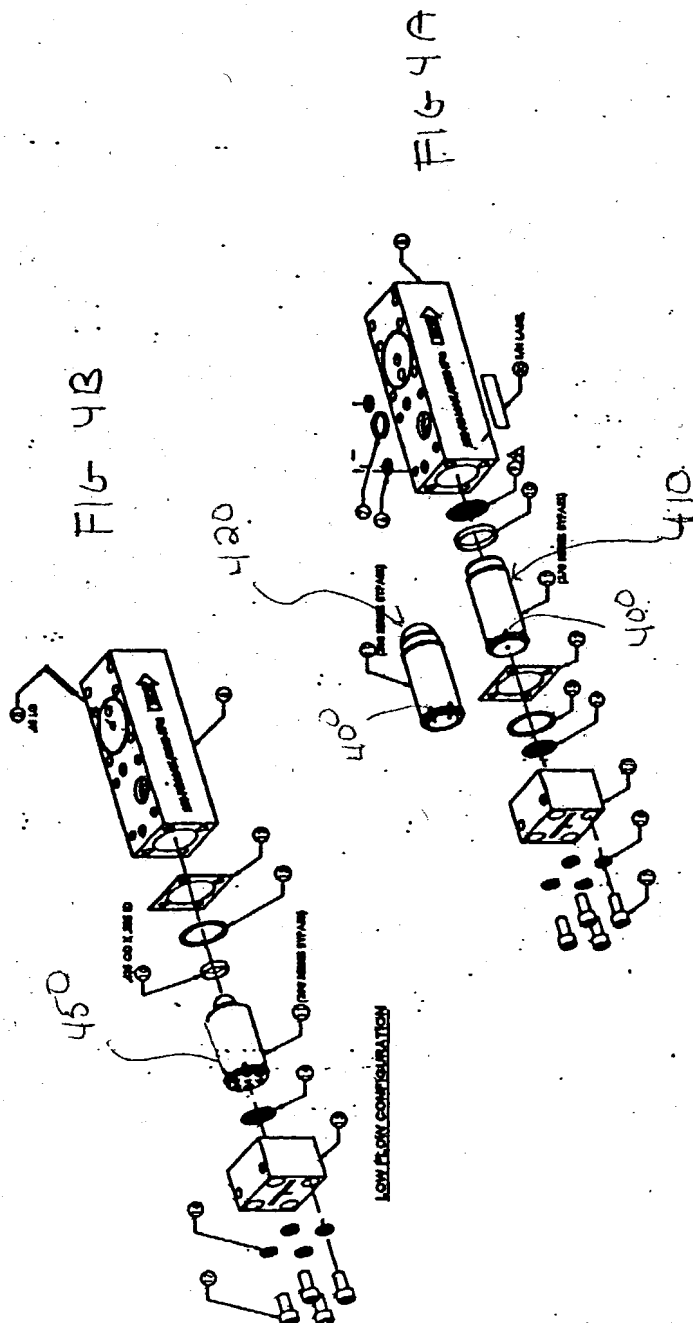
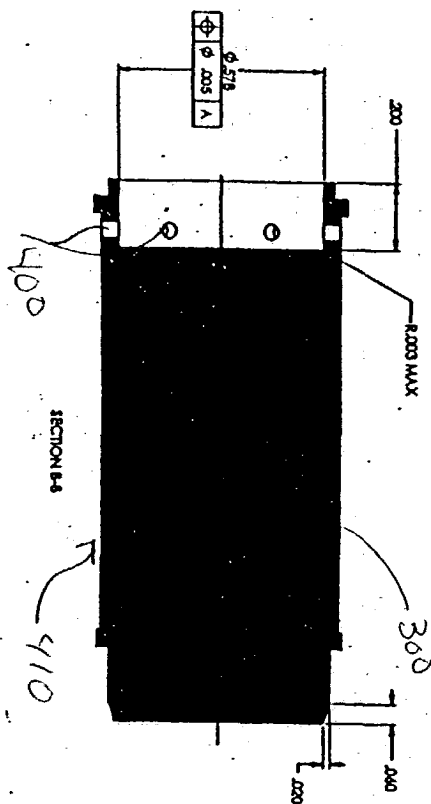
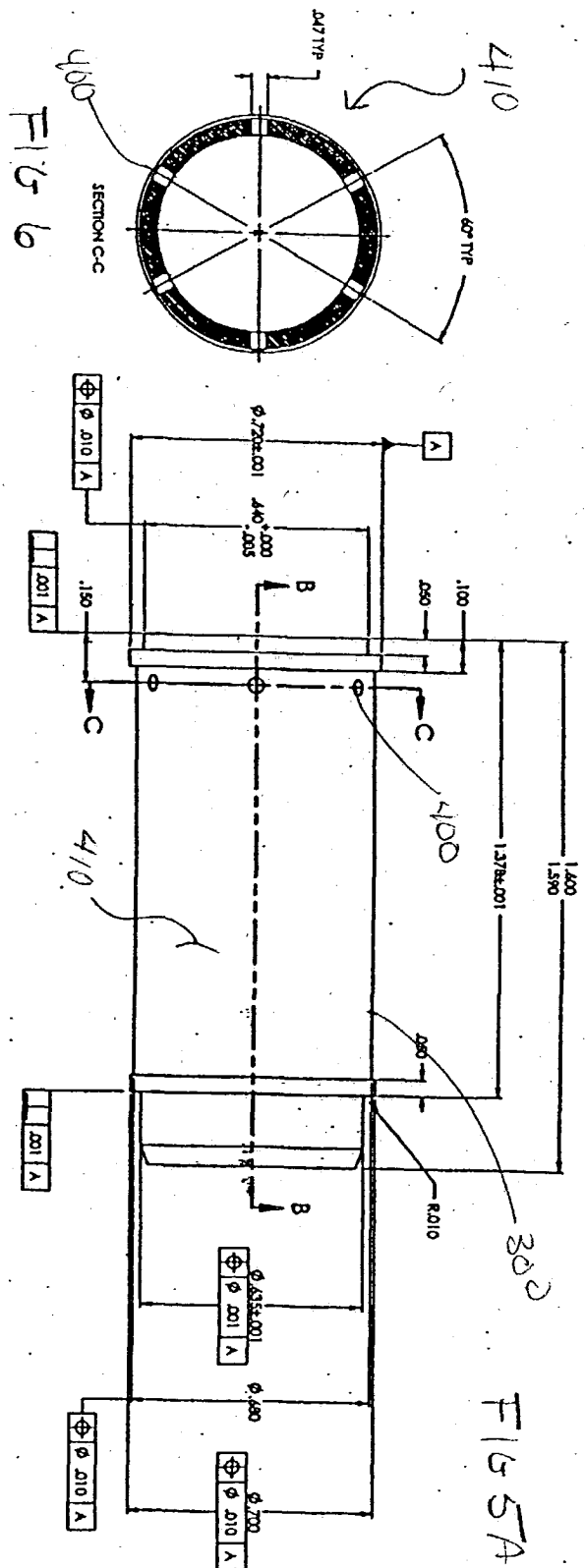


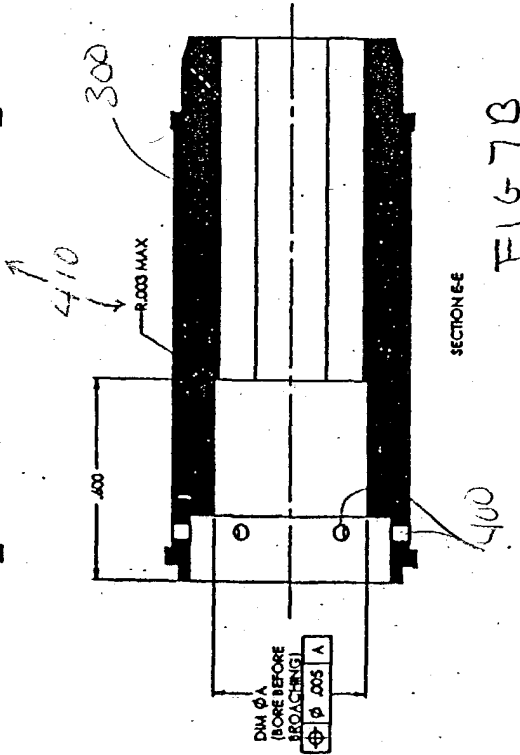
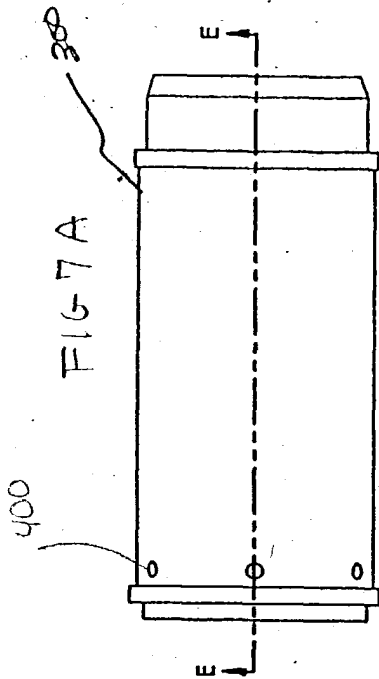
FIG 1. PRIOR ART







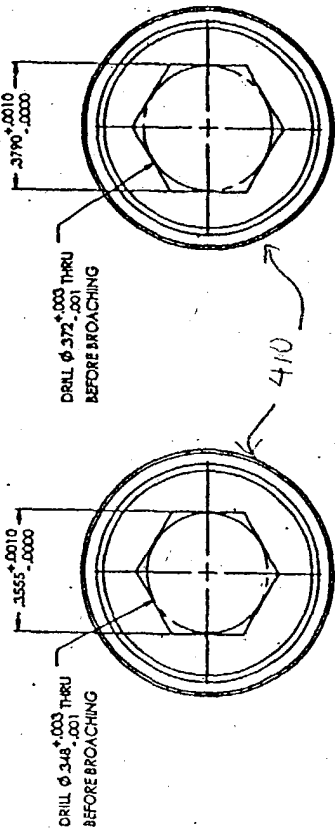
4. REFERENCE DRAWING #37X-XXX-XXXX FOR ASSEMBLY OF B7PASS HOUSING.
3. CLEAN AND PASSIVATE.
2. DEBURR AND DEGREASE.
1. SURFACE FINISH TO BE 10 μ IN RA.



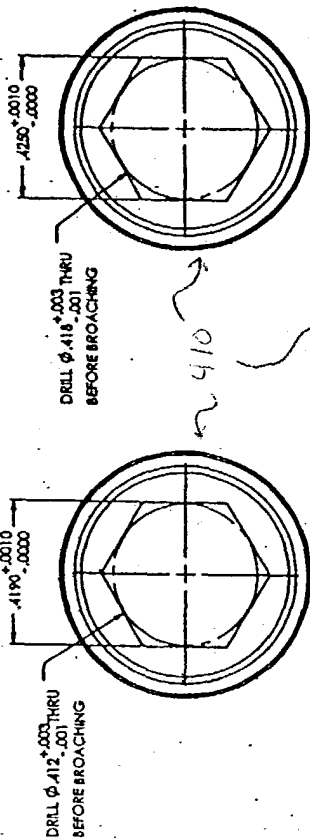
SECTION E-E

FIG 7B

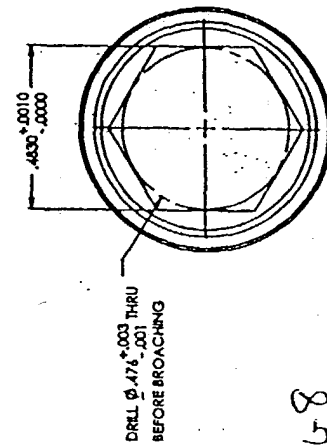
| TABLE 1 INLET BORE DIAMETER | |
|-----------------------------|------------|
| | DIAMETER A |
| | 0.438 |
| | 0.489 |
| | 0.518 |
| | 0.518 |
| | 0.578 |



(TUBE #3, 91 MAX)



(TUBE #2, 169 MAX)

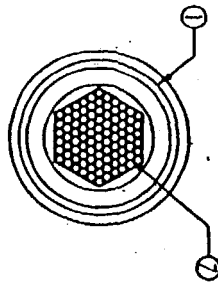


(TUBE #3, 127 MAX)

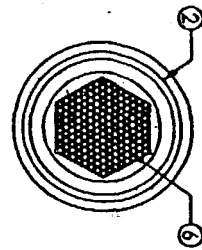
FIG 8

| ITEM | QTY |
|------|-----|
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |

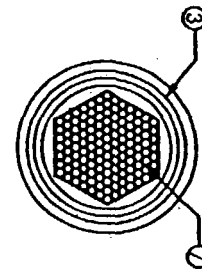
| DESCRIPTION | MATERIAL/REMARKS |
|----------------|------------------|
| BYPASS HOUSING | BT #3 TUBES MAX |
| BYPASS HOUSING | BT #2 TUBES MAX |
| BYPASS HOUSING | 127 #3 TUBES MAX |
| BYPASS HOUSING | 217 #2 TUBES MAX |
| BYPASS HOUSING | 169 #3 TUBES MAX |
| TUBING, BYPASS | TUBE #2, 025 OD |
| TUBING, BYPASS | TUBE #3, 037 OD |



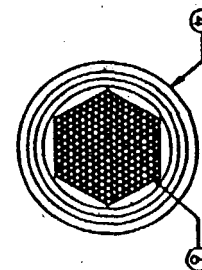
(TUBE #3, 91 MAX, WITH
 20 BENT TUBES MIN.)



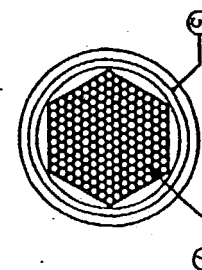
(TUBE #2, 169 MAX, WITH
 34 BENT TUBES MIN.)



(TUBE #3, 127 MAX, WITH
 26 BENT TUBES MIN.)



(TUBE #2, 217 MAX, WITH
 44 BENT TUBES MIN.)



(TUBE #3, 169 MAX, WITH
 34 BENT TUBES MIN.)

FIG 9

410

380 SERIES BYPASS CONFIGURATIONS
 (MACHINE FROM BLANK 380-000-0000)

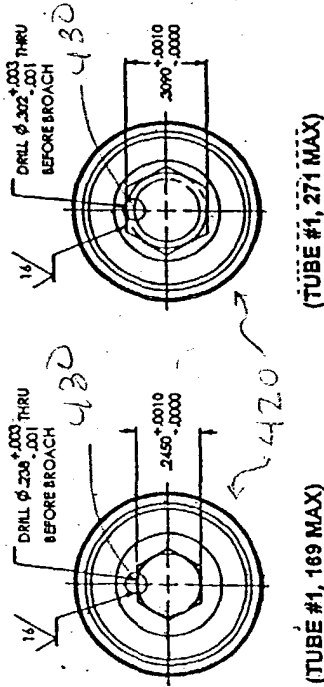
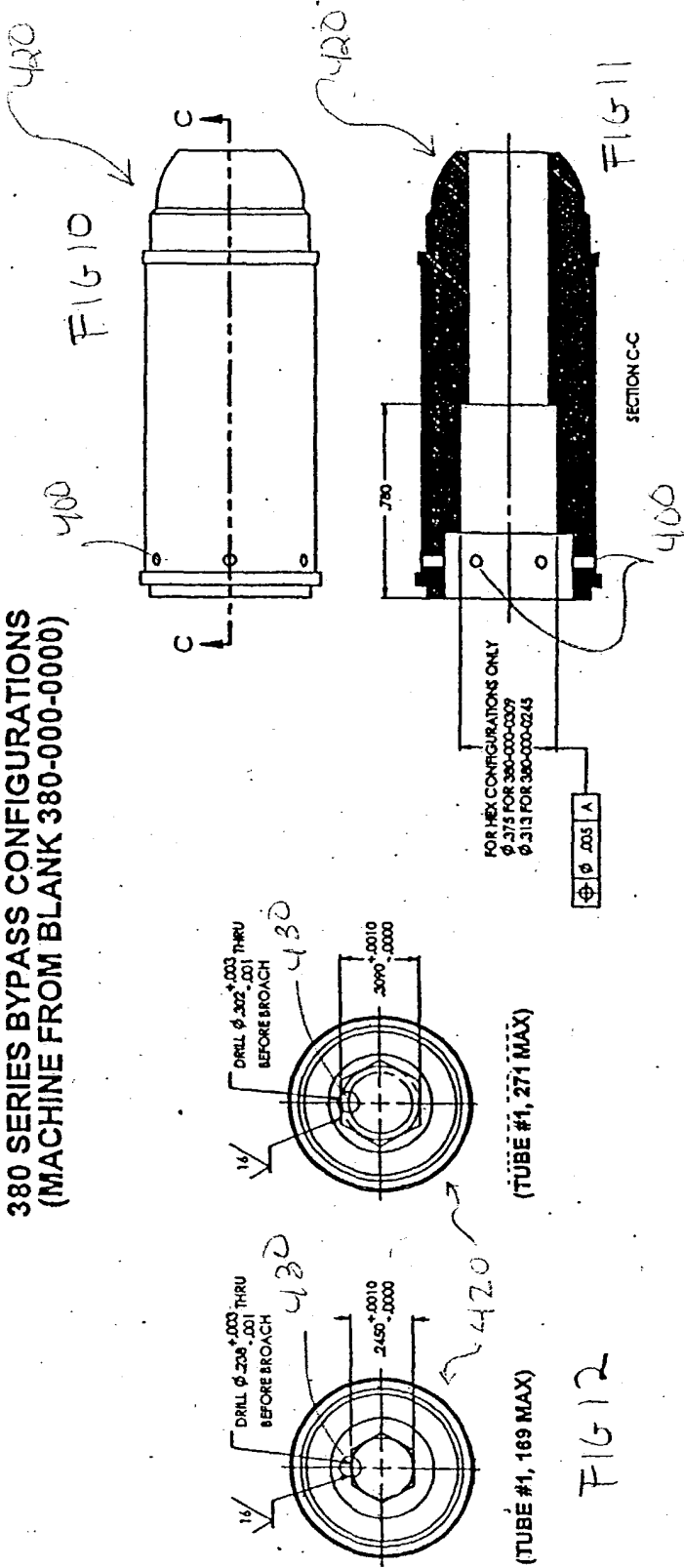


FIG 12

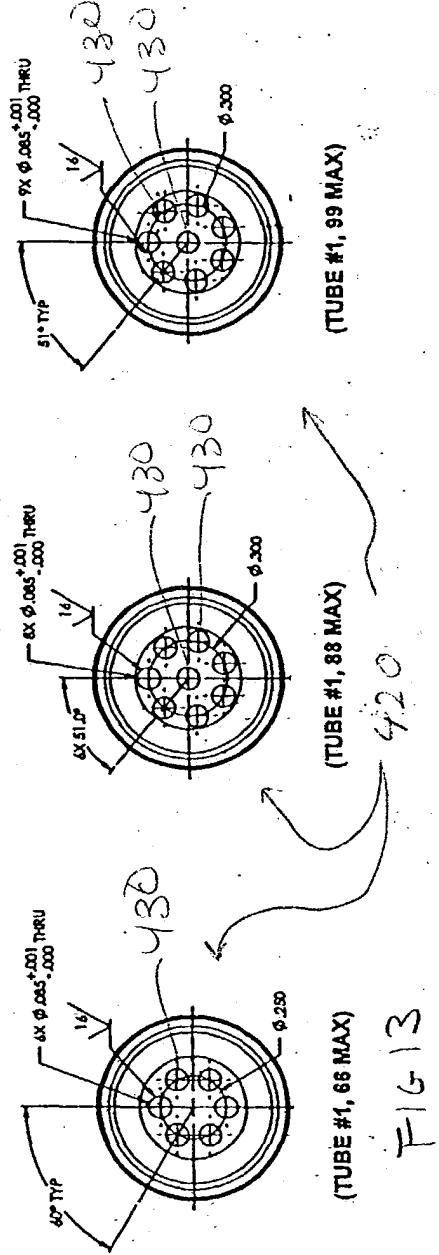
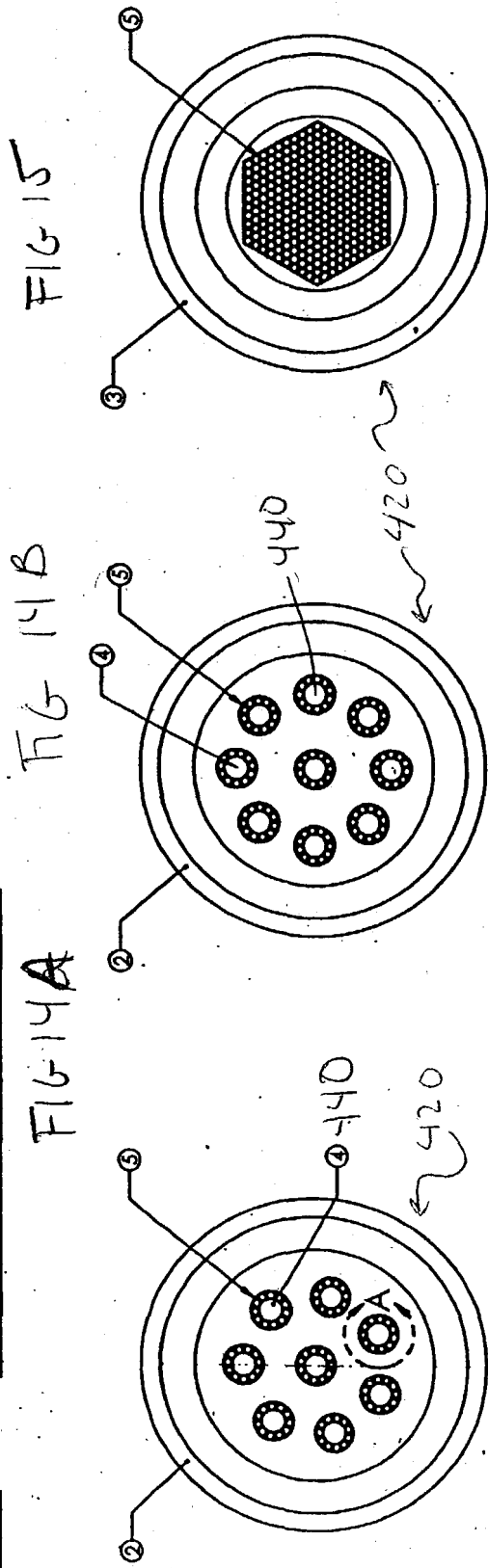


FIG 13

| ITEM | QTY |
|------|-----|
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | AIR |
| 5 | AIR |

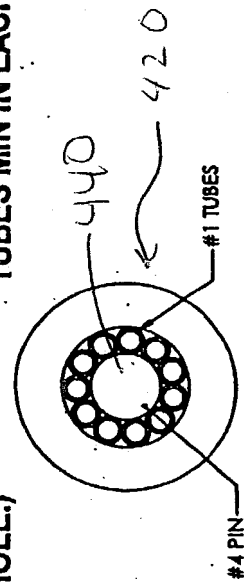
| DESCRIPTION | MATERIAL/REMARKS |
|------------------------|-----------------------|
| BYPASS HOUSING | BT #1 TUBES MAX |
| BYPASS HOUSING | 12/11 TUBES MAX |
| BYPASS HOUSING | 2/11 TUBES MAX |
| PM, BYPASS, 1 1/2" | 24 PIN |
| TUBING, BYPASS, 1 1/2" | F.H. TUBE #1, .015 OD |



(TUBE #1, 88 MAX, AND #4 PIN
 IN CENTER WITH 5 BENT
 TUBES MIN IN EACH HOLE.)

(TUBE #1, 99 MAX, AND #4 PIN
 IN CENTER WITH 5 BENT
 TUBES MIN IN EACH HOLE.)

(TUBE #1, 271 MAX, WITH
 55 BENT TUBES MIN.)



DETAIL A
 SCALE 12:1

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BLANK (390-000-0000)

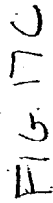
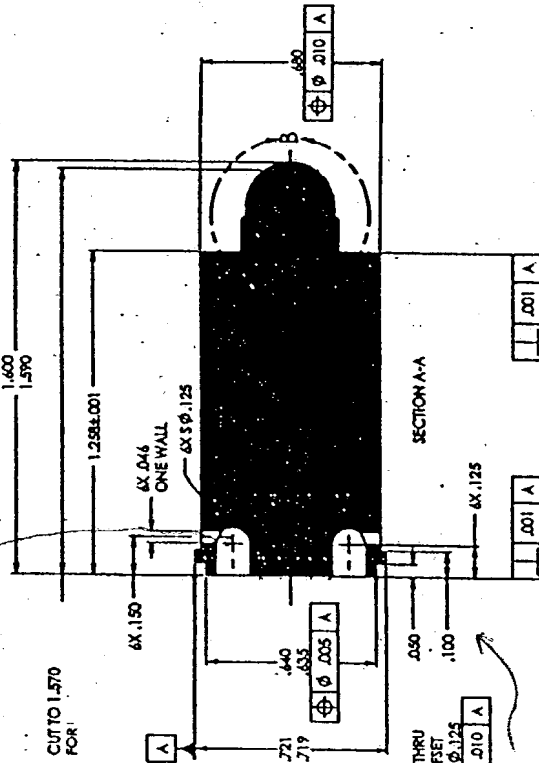
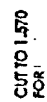
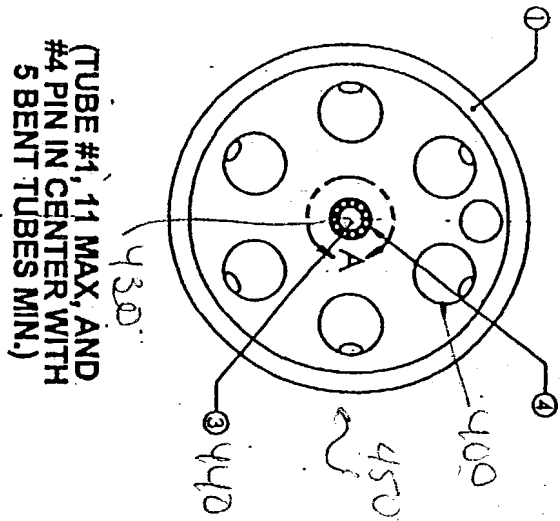
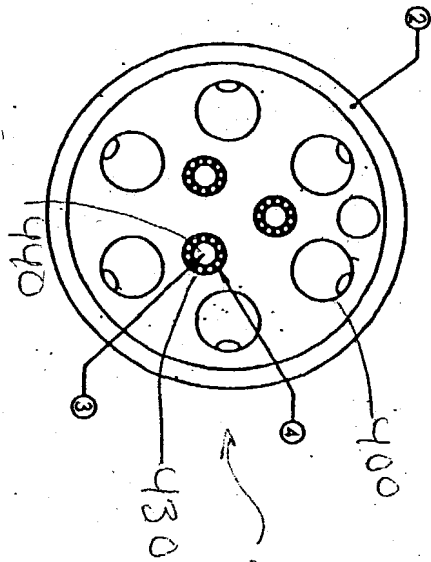


FIG 18A



(TUBE #1, 11 MAX, AND #4 PIN IN CENTER WITH 5 BENT TUBES MIN.)

FIG 18B



(TUBE #1, 33 MAX, AND #4 PIN IN CENTER WITH 5 BENT TUBES MIN IN EACH HOLE.)

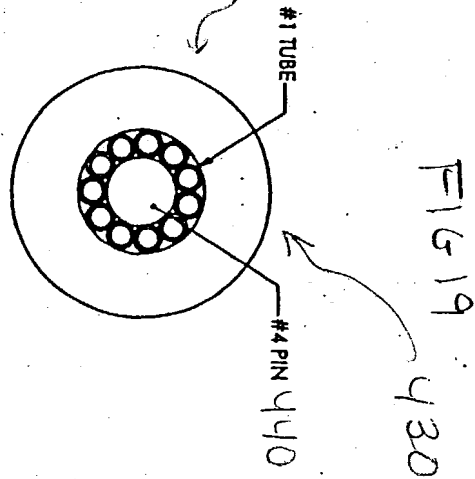


FIG 19

DETAIL A
 SCALE 12:1

| ITEM | QTY |
|------|-----|
| 1 | 1 |
| 2 | 1 |
| 3 | N/A |
| 4 | N/A |

| DESCRIPTION | MATERIAL/REMARKS |
|------------------------|----------------------------|
| BYPASS HOUSING | 1/2" OR 1 1/4" TUBES MAX |
| BYPASS HOUSING | 2 1/2" OR 3 1/4" TUBES MAX |
| PIN, BYPASS, 1 1/2" | #4 PIN |
| TUBING, BYPASS, 1 1/2" | FIT TUBE #1, 0195 OD |